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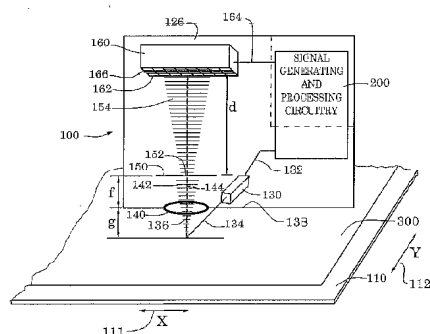
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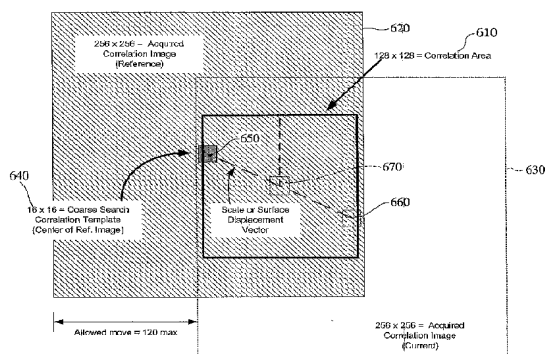
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(54) Title: DISPLACEMENT TRANSDUCER WITH SELECTABLE DETECTOR AREA



(57) Abstract: A displacement measurement device has a detec-
tor area which is larger than the area of the beam spot reflected
from the measurement surface. The detector area is made larger
than the size of the beam spot on the detector area, in order to ac-
commodate shifts in the location of the beam spot due to changes
in the precise locations of the components of the displacement
measurement device. The subset of pixels in the detector area
having advantageous correlation characteristics, is then selected
to perform the correlation calculation, thereby reducing data pro-
cessing time requirements.





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